

**COMPOSITE FIBROUS SUBSTRATES  
HAVING CARBOHYDRATE SHEATHS**

---

Abstract of the Invention

5

10

The present invention is directed to a method for treating a synthetic, man-made, or natural fiber substrate to create a permanently attached carbohydrate sheath around the fibers of the substrate. Such a treatment gives a composite fibrous substrate that exhibits the most desirable characteristics of the fiber core coupled with the most desirable characteristics of the carbohydrate sheath. It is also possible to apply this technology to individual synthetic fibers or yarns, if desired, before weaving, knitting, stitch-bonding or other method of woven or non-woven substrate formation.

